LOREX VANTAGE

Quick Setup Guide

LHD100 Series

High Definition Digital Video Recorder

Full HD 1080 | Easy Connect Wizard

PACKAGE CONTENTS:

1 x Digital Video Recorder with pre-installed HDD*
1 x Remote control
1 x USB mouse
1 x Power adapter
1 x Ethernet cable
1 x HDMI cable
1 x Instruction manual
1 x Quick start guide
1 x CD

* Content may vary by model, including number of channels/port configuration and HDD (hard disk drive) capacity. Check your package for specific content information.

CHECK OUR WEBSITE FOR LATEST DVR SOFTWARE FIRMWARE UPGRADES, VIDEOS & DOCUMENTATION.
www.lorextechnology.com

ATTENTION:
- This guide refers only to the DVR set-up.
- Monitor and cameras are not included.
- Broadband router and computer are required for local and remote monitoring (not included).

It's all on the Web

*** For setup of Instant Mobile Viewing refer to your Instruction Manual.**

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BASIC SETUP

STEP 1

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Hand Tools | Skills - Easy

Connecting Cameras (not included)

1 Connect the HD-SDI cameras to the **HD-SDI CAMERA IN** ports on the rear panel of the DVR. Use the black HD-SDI OUT cable to connect cameras to your DVR or extension cables.

Push and twist the BNC connector clockwise to secure it to the BNC port.

NOTE: Test the cameras prior to selecting a permanent mounting location by temporarily connecting the cameras and cables to your DVR.

NOTE: the four channel model is shown.

Connecting the USB Mouse

2 Connect the USB mouse to one of the USB ports on the front panel of the DVR.

Connecting the Ethernet Cable

3 Connect one end of the included Ethernet cable to an available LAN port of your router (not included) and the other end to the DVR's **ETHERNET** port.

Connecting a Monitor (RECOMMENDED)

4a Connect the HDMI cable to the DVR's **HDMI** port, and the other end to the HDMI port on the TV or monitor.

OR

4b Connect a VGA cable (not included) to the DVR's **VGA** port, and the other end to the VGA port on the monitor.

NOTE: The DVR cannot use an HDMI and VGA monitor at the same time.

BASIC SETUP

STEP 1 Continued

Powering ON the DVR

5 Connect the included power adapter to the **DC12V** port. Connect the end of the power adapter to a wall socket or a surge protector.

Press the power button on the front panel to power on your system.

NOTE: Make sure all cameras and cables are properly connected prior to powering on the system.

NOTE: If there is no picture on the TV/monitor after the DVR starts up, or if the picture does not fit on the screen, refer to the chart below:

3	4	Output Resolution
Up	Up	Full HD (1920x1080) - recommended for 1080p HDTVs/HDMI monitors
Up	Down	HD (1280x720) - recommended for 720p HDTVs/HDMI monitors
Down	Up	WSXGA+ (1680x1050)
Down	Down	SXGA (1280x1024) - Recommended for VGA monitors

Ensure that the #3 & 4 switches on the rear panel are in the correct configuration for your monitor. You must power off your DVR before making changes using the switches. Changes will take effect when your DVR is powered back on.

Setting the Date & Time

6 1. In Live Viewing mode, right-click on the screen and click **Setup**. Select the **Date & Time** tab.

Double-click the sections of the date and time you would like to change. Click the up and down arrows to set the date and time.

Click **SAVE**.

2. Under Date & Time, double-click the sections of the date or time you would like to change, and then click the up and down arrows to set the date and time.
3. Click **Save** to save your changes. Click **Exit** to return to Live Viewing mode.

It is important to set the correct time to assure accurate time stamps on video recordings.

NOTE: Time is displayed in 24-hour format.

Managing Passwords

7 By default, passwords are disabled on the system. You do not need to enter a password when accessing the Menu Bar or Main Menu. However, you may be asked for a password to access certain functions.

NOTE: By default, the username is **admin** and password is **00000**

NOTE: For security purposes, it is highly recommended to enable passwords on the system using the Password Menu. Please refer to the instruction manual for more information. Please note that a password is required for mobile viewing.

NAVIGATION AND CONTROLS

STEP 2

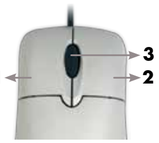
BASIC INSTALLATION GUIDE
Skills - Easy

Using the Main Menu

1 From Live Viewing mode, **right-click** mouse or press the **MENU** button on the front panel or remote control to open the Main Menu.

Using a Mouse (Recommended)

2 1. **Left-button**:
Click to select a menu option. During in Split-screen view, double-click on a channel to view the selected channel in full-screen; double-click the channel again to return to Split-screen view.



2. **Right-button**:
- In Live Viewing mode, click to open the Main Menu.
- In Playback mode, click to open the Playback sub-menu.

3. **Scroll-wheel**:
In Zoom Mode, scroll up/down to adjust the zoom level.

Other Control Options

3 The DVR can also be controlled using the front panel buttons and the included remote control.
Please refer to the instruction manual for more information on these methods.

Front Panel Buttons

Remote Control

*Remote control may not be exactly as shown

You have completed STEPS 1 & 2 successfully. Your DVR is now ready to use. Refer to the instruction manual to learn how to record, playback, search and for all other features available with this DVR.

SET-UP LOCAL VIEWING ON YOUR PC

STEP 3

BASIC INSTALLATION GUIDE
Time: 30 Minutes | Hardware: PC/Router | Skills - Intermediate

Retrieve the DVR Information

1 This step will teach you how to locally view your system over the LAN (local area network) using your PC.

NOTE: This method only works if your computer is on the same network as the DVR.

Default ports for remote access:
- Port 80 (Web port)
- Port 3000 (Client port)

To record your IP Address, Mac Address, Web Port and Client Port, simply press the ◀ button on the front of the DVR.

Record the information in the section below:
IP ADDRESS: _____.____.____.____
MAC ADDRESS: ____:____:____:____:____:____
(Required for DDNS registration)
CLIENT PORT: _____
WEB PORT: _____

Logging into Lorex Web Client (LOCALLY)

2 1. Launch **Internet Explorer** **NOTE:** 64bit Internet Explorer is not supported.
2. In the address bar, enter the **IP address of your DVR** (recorded in the previous step).
NOTE: Enter http:// followed by the IP address of your DVR (recorded in step 3-1), then a colon followed by the Web Port number
i.e. http://192.168.X.XXX:80
3. You must install the ActiveX® plug-in for DVR Netviewer to function. Click the attention bar and select **Install ActiveX Control.**
4. Enter your **user name** and **password**, then click **OK.**

Your default login:
Username is "**admin**"
Password is left blank

TIP: If you are having difficulties connecting with Internet Explorer use the Client software included in your CD. See instruction manual for details.

Live Viewing Using the Web Client (LOCALLY)

3 Upon login, the Web Client main screen appears in your browser.

Congratulations! You can now view & playback video on your via your LAN.

1 Auto Port Forward Wizard

NOTE: You must be on the same network as the DVR when setting up the DDNS.

The Lorex Auto Port Forwarding Wizard is a software that automates router port forwarding.

You must have the following before you configure the software:

1. Your router's **model** and **version** numbers
2. Your router's **user name** and **password**
3. Your Lorex device's **IP** address **(recorded in Step 3-1)**
4. Your Lorex device's **port** numbers that require port forwarding (80, 3000)

2 Installation

1. Insert the system's software CD, and follow the instructions to install and launch the **Lorex Auto Port Forwarding Wizard** software.

NOTE: The Wizard is PC compatible only. Mac users, please go to Step 4-4.

3 1: Populate the Router Database

The Auto Port Forwarding Wizard automatically populates a list of current routers, and detects the number of connected routers.

1. Click the **Next** button after the software detects your router configuration.

2: Enter your Router Settings

1. Under the Router drop-down list, select the model of your router **OR** click the **Search** button to enter the name of your router model.

NOTE: Ensure you select the proper model and firmware number of the router (as it appears on the back of the router)

IMPORTANT: Default ports that must be port forwarded for remote access:
Port **80** (Web Port)
Port **3000** (Client Port)

NOTE: Click the **Auto Detect** button if you have a Linksys or Netgear router (this works with most models).

2. Under **Router IP**, click the **Detect Router IP button**. The router's IP populates in the blank field.
3. Under **Username** and **Password**, enter the router's username and password.
4. Under **IP**, enter the IP address of your Lorex device as recorded in Step 3-1.
5. Under **Port**, enter the port number(s) that require forwarding (80, 3000).
6. Click **Next** to continue.

3: Update the Router Settings

1. Click the **Update Router** button. The program begins updating the router settings. This may take 20 - 30 seconds.
2. Close the **update** window when the update finishes.

NOTE: You may have to manually save your router settings after the software makes the required changes to your router.

4: Test your Connection

1. Click the **Test Your Connection** button. Your system's default browser opens and connects to your Lorex device.

NOTE: Ensure that Internet Explorer is your system's default internet browser.

NOTE: A window opens that prompts you to enter in your DVR's user name and password (by default your login is "admin" and your password is left blank)

NOTE: ActiveX warnings may appear. Accept all ActiveX installation warnings to connect to your system.

4 Optional: Manual Port Forward

If you were unable to port-forward your router automatically using the wizard, you will need to manually forward ports 80 and 3000 to your DVR's IP address.

All routers are different. To port forward your router, please refer to your router's user manual.

An example of a port forwarding screen is shown for illustration purposes.

EXAMPLE

Application	Start	End	Protocol	IP Address	Enable
			Port Range		
Web	80	to 80	Both	192.168.1. 12	☑
Client	3000	to 3000	Both	192.168.1. 12	☑

5 DDNS (Dynamic Domain Name System) Set-up

Open your web browser (Internet Explorer by default) and enter http://www.lorexddns.net in the address bar.

6 Create Account

1. Click **Step 1**
2. Create a new My Lorex account or sign in using an existing account.

7 Complete New Account Information

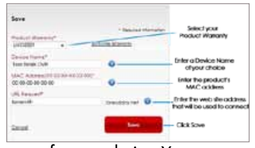
NOTE: Warranty Registration is required for DDNS.

1. Click **Warranties**.
2. Click **Activate Warranty**.
3. Under Your Address, select an address or click **Enter a New Address** to create a new address. Fill in your address information and click **Create Address**.

4. Fill in the warranty registration form with your product and purchase details and click **Save Warranty**. Check the sticker underneath your DVR for the Product Model Number and Serial Number.

5. Click **Set Up a New DDNS**.

6. Fill out the My DDNS form:



- **Product Warranty**: Select the product warranty you created in the previous steps.
- **Device Name**: Enter a name for your device. You can enter your name, business name, or anything of your choice.
- **MAC Address**: Enter the MAC address of your Lorex system recorded in Step 3-1.
- **URL Request**: Enter the web site address that will be used to connect to your Lorex system.

NOTE: URL Request should not be more than 15 characters.

7. Click **Save** to register your product for DDNS. A DDNS registration confirmation email will be sent to the email address used to register for My Lorex.

8 Registration E-mail

An automated **REGISTRATION CONFIRMATION E-MAIL** will be sent to your email. Print and save this confirmation. You will need to enter it into your system to enable remote access.

EXAMPLE
Domain Name/URL Request: tomsmith
DDNS User Name: tomsmith
Device DDNS Password: (your password)

9 Enable DDNS on the DVR

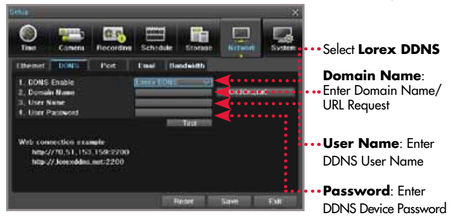
1. Right-click to open the Main Menu and click **Setup**.
2. Click **Network** and select the **DDNS** tab.
3. Under **DDNS Enable**, select **LorexDDNS**.

10 Enter the DDNS Information into the DVR

Enter the following into the **DDNS Setup** menu:

- **Domain Name**: Enter the Domain Name/URL Request that was emailed to you after DDNS registration.
- **User Name**: Enter your DDNS User Name that was emailed to you after DDNS registration.
- **User Password**: Enter your DDNS Device Password that was e-mailed to you after DDNS registration.

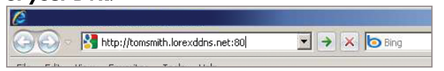
Click **Save**. Click **Exit** to return to Live Viewing.


Select Lorex DDNS
Domain Name: Enter Domain Name/ URL Request
User Name: Enter DDNS User Name
Password: Enter DDNS Device Password

NOTE: Please allow 10~15 minutes for the DDNS servers to update with your new DDNS address. This is normal for the DDNS system.

11 Logging into DVR Web Client (REMOTELY)

To access your DVR remotely, enter the DDNS address that you created earlier into Internet Explorer. The DDNS URL must include **http://** , your URL request, followed by **.lorexddns.net**, a **colon**, then the **Web port number of your DVR**.



Example of a DDNS address:
http://tomsmith.lorexddns.net:80
URL Request | Colon | Web Port Number

Installing ActiveX Plug-ins

When connecting to your system the first time, you will have to install an ActiveX plug-in for Internet Explorer.

To install ActiveX® plug-ins on Internet Explorer:

1. Log in to your system using Internet Explorer.
2. Click the ActiveX banner and then click **Run Add-on**.

NOTE: Internet Explorer 64 bit is not supported.

Logging into the System

1. Enter the **user name** and **password**, as shown below.

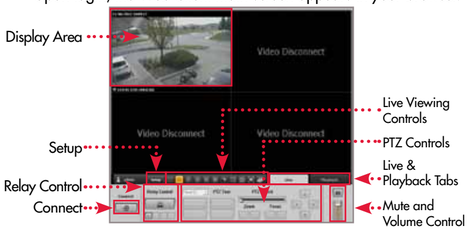
Default login:
Username is "**admin**"
Password is left blank

2. Click **OK** to connect to the system.

NOTE: Certain ISP (Internet Service Providers) block port 80. If you are unable to connect, check with your ISP and consult with the user manual for instructions on changing the web port. Make sure to port forward your revised web port.

Lorex Web Client Screen

Upon login, the Web Client main screen appears in your browser.



For a full explanation of all the Web Client buttons and features, please refer to the instruction manual.

Congratulations! You have completed Step 4 successfully. You can now connect over the internet to view and playback video.

For remote connectivity using compatible smartphones and tablets refer to the instruction manual. Make sure to complete Step 4 entirely. To connect remotely using Mac, please download the Mac Client software from **www.lorextechnology.com/support**

Should you require further assistance, LOREX Tech Support is available to assist you. Make sure to register your product prior to contacting support at:
www.lorextechnology.com/support